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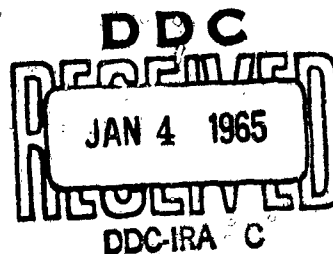
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Legibility of Alphanumeric Characters and Other Symbols

I. A Permuted Title Index and Bibliography



United States Department of Commerce

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Miscellaneous Publication 262-1

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Legibility of Alphanumeric Characters and Other Symbols

I. A Permuted Title Index and Bibliography

D. Y. Cornog, F. C. Rose, and J. L. Walkowicz



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LEGIBILITY OF ALPHANUMERIC CHARACTERS AND OTHER SYMBOLS:
I. A PERMUTED TITLE INDEX AND BIBLIOGRAPHY

Douglas Y. Cornog
F. Clayton Rose
Josephine L. Walkowicz

This permuted title index and bibliography to the literature on the legibility of alphanumeric characters and other symbols includes 325 references. Due to the confusion and overlap of terminology in the legibility literature, this report uses the term "legibility" to include "legibility," "readability," "perceptibility," "visibility" and any other closely related concepts. "Other symbols" include such items as the arrows and other coded symbols used to present information on radar displays. The psychological literature on perception has been included only when it was closely involved with the specific problems of alphanumeric characters and other meaningful symbols. Studies concerned with environmental variables, i.e. illumination and symbol-background contrast, and the legibility of dials and scales have received little attention. An author index is included.

INTRODUCTION

This report is the first of several related reports on the subject of the legibility of alphanumeric characters and other meaningful symbols. The permuted title index will serve both the present extended bibliography and the future report of selected information abstracts from the legibility literature. These reports are from the legibility project in the Research Information Center and Advisory Service on Information Processing (RICASIP). RICASIP is part of the Information Technology Division, Institute for Applied Technology, National Bureau of Standards (NBS), and is jointly supported by NBS and the National Science Foundation.

In the legibility literature, there is much confusion and overlap in the usage of the terms legibility, readability, perceptibility and visibility. For the

purposes of this report, the term legibility is considered to include these and any closely related concepts. In general, legibility refers to the characteristics of printed, written or other displayed meaningful symbolic material which determine the speed and accuracy with which the material may be read or identified. The psychological literature on perception has been included only when it was closely involved with the specific problems of alphanumeric characters and other meaningful symbols. "Other symbols" include such items as the arrows and other coded symbols used to present information on radar displays. Studies concerned with environmental variables, i.e. illumination and symbol-background contrast, and the legibility of dials and scales have received little attention.

Permuted Title Index: Description and Use. In this permuted title index, the important words in each publication title are arranged alphabetically down a center column of each index page (pages 5-22). This is accomplished by shifting each title along the horizontal printing line so that each important word in the title has an opportunity to appear in the center column. All of the titles are then arranged so that the words in the central column appear in alphabetical order. An exclusion list is used to keep words from appearing in the central column when they are considered unimportant or not of subject interest. Non-English titles have been entered in English for index purposes, with the original foreign language title appearing in the bibliography.

Each title in the permuted title index is identified by an accession number which appears at both the right and left ends of each title line. Since the bibliography is arranged alphabetically by author, the cross-reference must be utilized to associate the title accession number with the appropriate bibliographic entry identification.

The permuted title index is used by looking in the alphabetic listing for important subject-related words of interest to the user. When a given word is located, its relationship to the title can be found by looking to the right or left of the center column. Access to the bibliography is found by using the cross-reference list to connect the title accession number with the bibliographic entry identification. An author index is also provided.

Mrs. Angela F. Guinn and Miss Carolyn E. Thomas, both of the Information Technology Division, prepared and converted the bibliographic data to computer input. Their contributions are gratefully acknowledged.

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Burt, Cyril L.	Burt-1959
Burt, Harold E.	Burt-1923 Burt-1938 Burt-1949
Campbell, Richard J.	Brainard-1961
Carmichael, Leonard	Carmichael-1947 Dearborn-1951
Carterette, Teresa S.	Saltzman-1959
Case, Harry W.	Case-1952
Casperson, Roland C.	Casperson-1950
Chapanis, Alphonse	Chapanis-1949
Christie, A. W.	Christie-1961
Christner, C. A.	Hitt-1960
Coffey, J. L.	Coffey-1961 Hitt-1960
Cohen, Jerome	Cohen-1953 Cohen-1957
Cohn, M. Herman	Cohn-1881
Colgate University	Colgate-(1955)
Committee on Undersea Warfare	ComUW-1949
Cornog, Douglas Y.	Rowland-1958
Craig, K. J. W.	Craig-1943

Crannell, Clarke W.	Crannell-1958
Crook, Mason N.	Crook-1947a Crook-1947b Crook-1948 Crook-1949 Crook-1950a Crook-1950b Crook-1951 Crook-1952 Crook-1954a Crook-1954b Crook-1954c Crook-1959
Crosland, H. R.	Crosland-1928
Crumley, Lloyd M.	Atkinson-1952 Crumley-1961 Slivinske-1957
Cureton, Edward E.	Miyake-1930
Dallenbach, Karl M.	Glanville-1946
Dearborn, Walter F.	Carmichael-1947 Dearborn-1906 Dearborn-1951
Debons, Anthony	Crannell-1958
Decker, James D.	Decker-1961
Dentino, Bruno	Webb-1959
Derr, George F.	Ford-1939
Deuth, A. F.	Deuth-1953
Didelot, Marie	Didelot-1931
Dinnerstein, Albert J.	Cohen-1957
Divany, Richard	Crumley-1961
Dixon, J. C.	Dixon-1948
Dodge, Raymond	Dodge-1907 Erdmann-1898
Dunlap, J. W.	Miyake-1930

Elkin, Edwin H.	Brainard-1961
Embree, L. F.	Lauer-1947
English, E.	English-1944
Erdmann, Benno	Erdmann-1898
Fitts, Paul M.	Fitts-1951
Flores, Ivan	Flores-1960
Foley, P. J.	Foley-1956 Foley-1957a Foley-1957b
Forbes, T. W.	Forbes-1939 Forbes-1951 Mitchell-1942
Ford, Adelbert	Ford-1939
Fryer, Douglas H.	Fryer-1950
Gage, Harry L.	Gage-1937 Gage-1938
Gaito, John	Gaito-1956 Gaito-1957
Garner, Wendell R.	Chapanis-1949
Garvey, W. D.	Long-1954 Long-1955
Gates, Stephen	Crumley-1961
Gibson, Jack R.	Weiner-1952
Gilliland, A. R.	Gilliland-1923
Glanville, A. Douglas	Glanville-1946
Gleason, J. G.	Gleason-1947
Grant, John C.	Legros-1916
Green, B. F.	Green-1953 Harris-1956
Greene, Edward B.	Greene-1933 Greene-1934

Grether, Walter A.	Baker-1954 Grether-1950
Gustafson, Charles E.	Gustafson-1960
Halsey, Rita M.	Halsey-1960a Halsey-1960b
Hanson, John A.	Crook-1952 Crook-1954a Crook-1954b
Harker, George S.	Crook-1948 Crook-1950a
Harris, W. P.	Harris-1956
Hastings, Clinton B.	Hastings-1956
Henry, Edwin R.	Fryer-1950
Herrington, C. Gordon	Herrington-1960 Karmeier-1960
Highway Research Board Committee on Road User Characteristics	H1RBCRUC-1959
Hitt, W. D.	Hitt-1960
Hodge, David C.	Hodge-1962 Hodge-1963
Hoffman, Arthur C.	Crook-1947a Crook-1947b Crook-1948
Hogg, Doreen	Hogg-1957
Hollingworth, Harry	Hollingworth-1913
Holmes, Grace	Holmes-1931
Holmes, Robert S.	Forbes-1939
Horton, David L.	Horton-1960 Mecherikoff-1959
Hostetter, Robert	Crumley-1961

Hovde, Howard T.	Hovde-1929
Howell, William C.	Howell-1959 Howell-1961
Huey, Edmund Burke	Huey-1916
Hughes, C. L.	Hughes-1961
Hulbert, S. F.	Hulbert-1957 Webb-1958
Hurd, Fred	Hurd-1947
Hurst, Paul	Crumley-1961
Institute for Applied Experimental Psychology, Tufts College	InstTUFTS-1952
Israel, R. J.	Smith-1958
Jenkins, H. M.	Green-1953
Jenkins, L. B.	North-1951
Johnson, Georgia	Crosland-1928
Johnston, Philip W.	Dearborn-1951
Karmeier, Delbert F.	Karmeier-1960
Kasten, Duane F.	Seibert-1959
Kelly, Robert B.	Kelly-1960
Kennedy, John L.	Crook-1947a Crook-1947b Crook-1948
Kimura, Doreen	Kimura-1959
Klare, George K.	Klare-1963
Klare, George R.	Klare-1957
Klemmer, E. T.	Klemmer-1958
Kraft, Conrad L.	Howell-1959 Howell-1961

Kreezer, George L.	Glanville-1946
Krulee, Gilbert K.	Krulee-1954 Krulee-1955
Krzhivoglavsky, Yaro.	Krzhivoglavsky-1962
Kuntz, James E.	Kuntz-1950
Kurke, Martin I.	Kurke-1954
Lansdell, H.	Lansdell-1954
Lauer, A. R.	Lauer-1947 Lauer-1948 Lauer-1955
Laurie, W. D.	Murrell-1958
Legros, Lucien A.	Legros-1916 Legros-1922
Leikind, Morris C.	Weiner-1952
Liaudansky, L. H.	Harris-1956
Lippert, S.	Lippert-1962
Loftus, J. P.	Klemmer-1958
Long, E. R.	Long-1951 Long-1952a Long-1952b Long-1954 Long-1955
Longyear, William	Longyear-1936
Loucks, Roger B.	Loucks-1944a Loucks-1944b Loucks-1944c Loucks-1944d
Lowery, Edward A.	Brown-1949a Brown-1950 Brown-1951
Luckiesh, Matthew	Luckiesh-1923 Luckiesh-1937a Luckiesh-1937b

Luckiesh, Matthew (cont.)

Luckiesh-1937c
Luckiesh-1938a
Luckiesh-1938b
Luckiesh-1939a
Luckiesh-1939b
Luckiesh-1939c
Luckiesh-1940a
Luckiesh-1940b
Luckiesh-1941a
Luckiesh-1941b
Luckiesh-1942
Luckiesh-1943

Mackworth, N. H.

Mackworth-1944
Mackworth-1952

Martin Company

Martin-1961

Martin, Hugh B.

Alluisi-1957
Alluisi-1958

McCarthy, C.

Murrell-1958

McCormick, Ernest J.

McCormick-1957

McGill, W. J.

Green-1953

McNally, Harold J.

McNally-1943

Mead, Leonard C.

Mead-1954

Mecherikoff, Michael

Horton-1960
Mecherikoff-1959

Melville, Joseph R.

Melville-1957

Mergenthaler Linotype
Company

Mergenthaler-1935

Michael, J. L.

Case-1952

Ministry of Transport

MinTran-1963

Mitchell, Adolphus

Mitchell-1942

Miyake, Ruth

Miyake-1930

Moore, Leonard C.

Moore-1958

Moore, R. L.	Moore-1962
Morgan, Clifford T.	Chapanis-1949
Morgan, Glenn	Forbes-1951
Morison, Stanley	Morison-1951
Moskowitz, Karl	Forbes-1951
Moss, Frank K.	Luckiesh-1937a
	Luckiesh-1937b
	Luckiesh-1938a
	Luckiesh-1938b
	Luckiesh-1939a
	Luckiesh-1939b
	Luckiesh-1939c
	Luckiesh-1940a
	Luckiesh-1940b
	Luckiesh-1941a
	Luckiesh-1941b
	Luckiesh-1942
	Luckiesh-1943
Mount, George E.	Case-1952
Murrell, K. F. H.	Murrell-1952
	Murrell-1958
Nagel, John T.	Bauch-1954
Nahinsky, Irwin D.	Nahinsky-1956
Neal, Harry E.	Neal-1944
Neisser, Ulric	Neisser-1960
Nichols, William H.	Klare-1957
Nida, Paul M.	Moore-1958
North, Alvin J.	North-1951
Novick, Lee	Anderson-1960
OPTICAL READING	OptRead-1961
Orlansky, Jesse	Bowen-1959
Ovink, G. W.	Ovink-1938

Paterson, Donald G.

Paterson-1929
Paterson-1931
Paterson-1932a
Paterson-1932b
Paterson-1936
Paterson-1938
Paterson-1940a
Paterson-1940b
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Paterson-1946a
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TinkPat-1942
TinkPat-1943
TinkPat-1944a
TinkPat-1944b
TinkPat-1946a
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TinkPat-1949
TinkPat-1950

Perry, Dallis K.

Perry-1962

Podell, Jerome E.

Krulee-1954

Potter, James R.

Seibert-1959

Poulton, E. C.

Poulton-1959
Poulton-1960

Preston, Katherine

Preston-1932

Pyke, Richard L.

Pyke-1926

Queal, Ralph W.

Long-1951

Rabinow, J.	Rabinow-1954 Rabinow-1962
Ronco, Paul G.	Krulee-1954
Rebert, G. Nevin	Rebert-1932
Reid, L. S.	Long-1951 Long-1952a Long-1952b Long-1954
Reinwald, F. L.	Reinwald-n.d. Reinwald-1954
Rock, M. L.	Spragg-1952
Roden, T. G. V.	Whiteside-1951
Roethlein, Barbara E.	Roethlein-1912
Ronchi, Lucia	Ronchi-1951
Rose, Florence C.	Rose-1946
Rostas, Steven M.	Rose-1946
Rowland, George E.	Rowland-1958
Rudolph, J.	Webb-1959
Rutley, K. S.	Christie-1961
Saltzman, Irving J.	Saltzman-1959
Sampson, Philip B.	Sampson-1961
Sanford, E. C.	Sanford-1888
Schapiro, Harold B.	Schapiro-1952
Schoppert, David W.	Webb-1958
Schutz, H. G.	Hitt-1960
Schwankl, Howard P.	Preston-1932
Scott, D. M.	Foley-1957a
Scott, Walter D.	Scott-1903

Seibert, Warren F.	Seibert-1959
Seminara, J. L.	Wright-1958a
Shuford, Emir H.	Klare-1957
Shurtleff, D.	Botha-1963a Botha-1963b
Silver, Edwin H.	Silver-1940
Simon, Oliver	Simon-1954
Sleight, Robert B.	Kuntz-1960 Sleight-1950 Sleight-1952
Slivinske, Alec J.	Slivinske-1957
Smith, G. W.	Smith-1958
Smyth, J. S.	Smyth-1947
Soar, Robert S.	Soar-1955a Soar-1955b Soar-1958
Solomon, David	Solomon-1956
Soloway, Esta	Bitterman-1946a Bitterman-1946c
Spragg, S. D. S.	Spragg-1952
Squires, Paul C.	Squires-1957
Starch, Daniel	Starch-1914 Starch-1923
Stevens, S. S.	Stevens-1951
Stikar, J.	Stikar-1961
Stone, James A.	Lauer-1955
Straub, Arthur L.	Allen-1955
Sumner, F. C.	Sumner-1932
Swartz, W. F.	Swartz-1961

Taylor, Cornelia D.

Terry, Paul W.

Tinker, Miles A.

Taylor-1934

Terry-1922

Paterson-1929
Paterson-1931
Paterson-1932a
Paterson-1932b
Paterson-1936
Paterson-1938
Paterson-1940a
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Paterson-1942a
Paterson-1942b
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Paterson-1946a
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Paterson-1947b
Preston-1932
Tinker-1927
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TinkPat-1932
TinkPat-1935
TinkPat-1936
TinkPat-1939a
TinkPat-1939b
TinkPat-1941

Tinker, Miles A. (cont.)	TinkPat-1942 TinkPat-1943 TinkPat-1944a TinkPat-1944b TinkPat-1946a TinkPat-1946b TinkPat-1949 TinkPat-1950 Webster-1935a Webster-1935b
Truax, Shaffer	Bowen-1959
Turner, O. G.	Turner-1930
Uhlaner, Julius E.	Uhlaner-1941
Ullman, William	Ullman-1958
Updike, Daniel B.	Updike-1922
Utman, R. E.	Utman-1963
Vernon, Magdalen D.	Vernon-1931 Vernon-1948
Wade, E. A.	Bridgman-1956 Sampson-1961
Walker, J.	Walker-1961 Walker-1962
Warren, Alice L.	Warren-1942
Webb, George M.	Webb-1956 Webb-1958 Webb-1959
Webb, Ilse B.	Cohen-1953
Webster, Edward	Webster-1963
Webster, Helen A.	Webster-1935a Webster-1935b
Weene, Paul	Neisser-1960
Weiner, Jack	Weiner-1952

Weinland, James D.	Weinland-1924 Weinland-1926
Weisz, Alexander	Crook-1954a Crook-1954b Krulee-1955
Wessell, Nils Y.	Crook-1947a Crook-1947b
Whiteside, T. C. C.	Whiteside-1951
Whittemore, Irving C.	Whittemore-1948
Wick	Wick-1921
Willis, Marion P.	Atkinson-1952 Brown-1951
Wilson, E. A.	Harris-1956
Woodson, Wesley E.	Woodson-1954
Wright, Natalie L.	Wright-1958a Wright-1958b
Wulfeck, Joseph W.	Crook-1947a Crook-1947b Crook-1952 Wulfeck-1952
Young, Katherine D.	Young-1946

Announcement of New Publications on
Legibility of Alphanumeric Characters
and Other Symbols

Superintendent of Documents
Government Printing Office
Washington, D. C. 20402

Dear Sir:

Please add my name to the announcement list of new publications to be issued as sections of: NBS Miscellaneous Publication 262 - Legibility of Alphanumeric Characters and Other Symbols.

Name _____

Company _____

Address _____

City _____ State _____ Zip Code _____

(Notification key N-333)

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UNITED STATES DEPARTMENT OF COMMERCE
National Institute of Standards and Technology
Gaithersburg, Maryland 20899-

November 17, 2011

[REDACTED]
[REDACTED]
[REDACTED]

Dear [REDACTED],

The Defense Technical Information Center (DTIC) transferred to the National Institute of Standards and Technology (NIST) documents in response to your October 11 and October 15, 2011 Freedom of Information Act (FOIA) requests to DTIC.

This letter serves as NIST's final response to your requests for DTIC Report [REDACTED] and DTIC Report AD-453458 (DTIC FOIA numbers 2012-04 and 2012-05).

NIST has completed the review of the provided records and we are releasing in its entirety document AD453458, "Legibility of Alphanumeric Characters and Other Symbols, I. A Permuted Title Index and Bibliography" (attached).

[REDACTED] is being returned to DTIC for processing.

Sincerely,

Catherine S. Fletcher
Freedom of Information Act Officer

Attachment

NIST